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ABSTRACT

To a polycrystalline silicon layer crystallized by irradiation with laser light, a mixed gas comprised of ozone gas and H₂O or N₂O gas is fed at a processing temperature of 500°C or below, or the polycrystalline silicon layer is previously treated with a solution such as ozone water or an aqueous NH₃/hydrogen peroxide solution, followed by oxidation treatment with ozone, to form a silicon oxide layer of 4 nm or more thick at the surface of the polycrystalline silicon layer for forming a thin-film transistor having less variations of characteristics on an unannealed glass substrate.